

Onshore Grab Sample

Sample: ES-40-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/31/11
Splits? N/A

County: Escambia
Latitude: 30° 22' 20.3" N
Longitude: 86° 54' 37.8" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	67.807 grams
Total Fines in Sample	0.014 grams
Total Percent Fines	0.02 %

Dry Sieving Summary

Total Sample Weight	67.894 grams
Total Digested Weight	66.909 grams
Total Carbonate Weight	0.985 grams
Total Silica %	98.55 %
Total Carbonate %	1.45 %
Carbonate/Silica Ratio	0.015

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

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Total Sample Mass: 67.894 grams

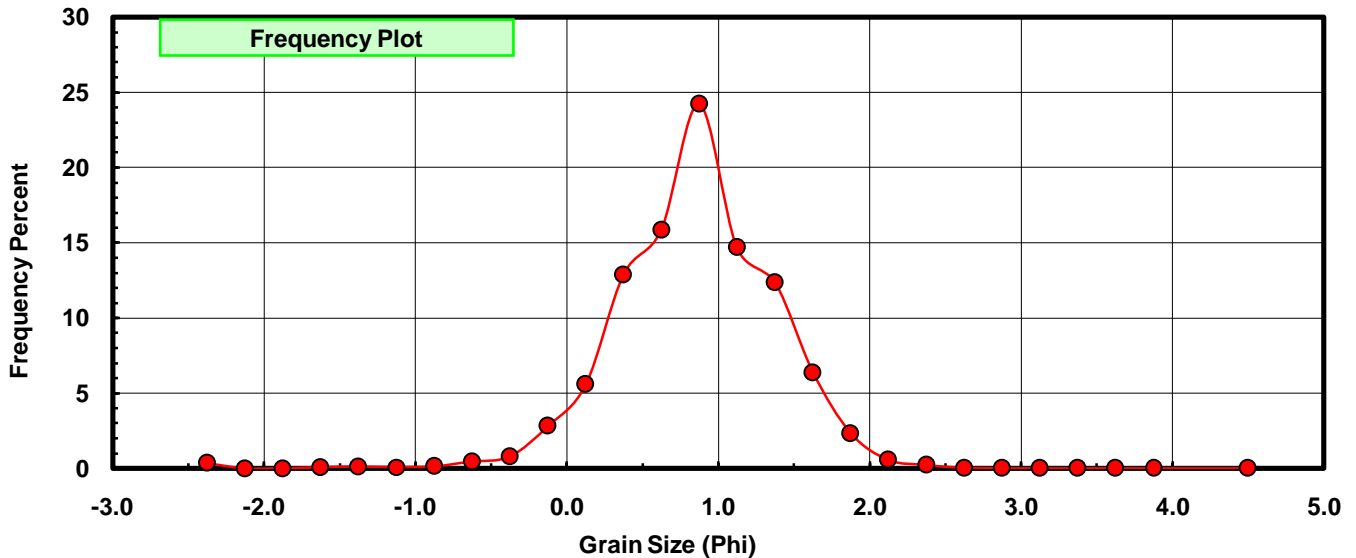
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.243	0.358	0.358
-2.00	-2.125	0.000	0.000	0.358
-1.75	-1.875	0.000	0.000	0.358
-1.50	-1.625	0.047	0.069	0.427
-1.25	-1.375	0.074	0.109	0.536
-1.00	-1.125	0.059	0.087	0.623
-0.75	-0.875	0.093	0.137	0.760
-0.50	-0.625	0.309	0.455	1.215
-0.25	-0.375	0.537	0.791	2.006
0.00	-0.125	1.908	2.810	4.816
0.25	0.125	3.793	5.587	10.403
0.50	0.375	8.745	12.880	23.283
0.75	0.625	10.764	15.854	39.137
1.00	0.875	16.445	24.222	63.359
1.25	1.125	9.978	14.696	78.055
1.50	1.375	8.383	12.347	90.403
1.75	1.625	4.328	6.375	96.777
2.00	1.875	1.587	2.337	99.115
2.25	2.125	0.379	0.558	99.673
2.50	2.375	0.152	0.224	99.897
2.75	2.625	0.029	0.043	99.940
3.00	2.875	0.012	0.018	99.957
3.25	3.125	0.006	0.009	99.966
3.50	3.375	0.005	0.007	99.973
3.75	3.625	0.002	0.003	99.976
4.00	3.875	0.008	0.012	99.988
5.00	4.50	0.008	0.012	100.000

Statistical Results			
Mean:	0.8466	phi	(0.5561 mm)
Standard Dev:	0.5495	phi-units	(0.6832 mm)
Skewness:	-0.8218	dimensionless	
Kurtosis:	7.5841	dimensionless	
5th Moment:	-25.8481	dimensionless	
6th Moment:	185.0652	dimensionless	
RARD *	0.6491	dimensionless	
Median	0.7371	phi	(0.5999 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)



ES-40-BB

